

# Titanium Grade 2 Technical Datasheet

# **Key Features**

- Excellent strength-to-weight ratio
- Good corrosion resistance
- Low thermal expansion

## **Common Applications**

- Aircraft components
- Cryogenic vessels
- Heat exchangers
- CPI equipment
- Condenser tubing
- Pickling baskets

## **Material Description**

Titanium Grade 2 is a commercially pure titanium alloy known for its excellent corrosion resistance, high strength-toweight ratio, and biocompatibility. It is the most common grade of titanium due to its balance of properties and relatively low cost compared to other titanium grades. Titanium Grade 2 is widely used in various industries, including aerospace, medical implants, marine equipment, and chemical processing, where corrosion resistance and lightweight properties are critical. It is also known for its exceptional weldability and fabricability, allowing for the production of complex shapes and components.

Chemical Composition (%)											
	С	н	Fe	Ν	0	Ti					
Min.											
Max.	0.10	0.015	0.30	0.030	0.25	99.2					

### **Mechanical Properties**

Ultimate Tensile Strength Tensile Yield Strength Hardness Elongation at Break 62,400 PSI 49,300 PSI Rockwell B98 20%

# **Physical Properties**

Density Thermal Conductivity Modulus of Elasticity Melting Point 0.163 lb/in³ (4.51 g/cm³) 16.4W/m.K 15,200 KSI (105 GPa) ≤3,029°F (≤1,665 °C)

#### **Technical Assistance**

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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